CAFO FACILITY INSPECTION REPORT

OFFICE NO: PCA SYSTEM TASK NO:

INSPECTOR(S): Anthony D'Angelo (PG Environmental, LLC)

FACILITY INFORMATION

8365974001 WDID NUMBER	**Gerben Hettinga** OWNER NAME	**GH Dairy No. 3** FACILITY NAME
CAG018001 NPDES NUMBER	**Ex. 6 Personal Privacy (PP)** OWNER ADDRESS	FACILITY ADDRESS
R8-2007-0001 RWQCB ORDER NO.	**Ontario, CA 91762** OWNER CITY AND STATE	**Ontario, CA 91762** FACILITY CITY AND STATE
_____ SCHEDULED INSPECTION DATE	**Gerben Hettinga** OWNER CONTACT	**Frank Silva** FACILITY CONTACT
03/07/2013 ACTUAL INSPECTION DATE	**Ex. 6 Personal Privacy (PP)** OWNER PHONE NO.	FACILITY PHONE NO.
Unknown RECEIVING WATER	**Ex. 6 Personal Privacy (PP)** FACILITY LATITUDE	FACILITY LONGITUDE

INSPECTION TYPE

- ☐ (A1) "A" type compliance -- (EPA Type S)
- ☒ (B1) "B" type compliance -- (EPA Type C)
- ☐ (02) Noncompliance follow-up - Correction of a previously identified violation
- ☐ (03) Enforcement follow-up - Enforcement action is being met
- ☐ (04) Complaint - Complaint
- ☐ (05) Pre-requirement
- ☐ (06) Miscellaneous

_____ (Type) NOTE: If this is an EPA inspection not mentioned above, please note type (e.g., biomonitoring, performance audit, diagnostic, etc.)

No	Was the inspection pre-announced?
Yes	Were potential violations noted during this inspection?
No	Was this a quality assurance-based inspection?
No	Were bioassay samples collected?
No	Were water quality samples collected?

INSPECTION SUMMARY

The overall Facility rating, on a 1 (Unreliable) to 5 (Very Reliable) scale, was determined to be: 3 = Satisfactory.

GH Dairy No. 3 (hereinafter, Facility) was rated "Satisfactory" due to the following items:

- **Annual Reports for the previous five (5) years were not retained or available for review at the time of the inspection**
- **Weekly Storm Water Management Structure visual inspection documentation was not retained onsite or available for review at the time of the inspection**
- **Manure Tracking Manifests were not retained onsite or available for review at the time of the inspection**
- **The Engineered Waste Management Plan (EWMP) was not retained on-site or available for review at the time of the inspection**

INSPECTOR DATA

INITIALS __AJD___ SIGNATURE _____ DATE__03/07/2013_____

CIWQS DATA ENTRY DATE: _____ REGIONAL BOARD FILE NUMBER: _____

FOR INTERNAL USE: REVIEWED BY: (1)_____ (2) _____ (3) _____

REPORT PREPARED BY: Anthony D'Angelo (PG Environmental, LLC) ON 03/26/2013

EPA SUGGESTED INSPECTION CHECKLIST

☒ Permit	☐ Flow Measurement	☐ Pretreatment	☒ Operations & Maintenance
☒ Records/Reports	☐ Laboratories	☐ Compliance Schedules	☐ Sludge Disposal
☒ Facility Site Review	☐ Eff/Receiving Waters	☐ Self- Monitoring	☐ Other

POTENTIAL VIOLATIONS

1. The EWMP was not retained onsite or available for review at the time of the inspection as required by Provision VII.C.3.c of the Permit.

Description of Potential Violation: **Refer to Item No. 1 of the 'Engineered Waste Management Plan Review' section of this report for additional details.**

Date of Potential Violation: **N/A**

Date of Potential Violation Determination: **March 7, 2013**

INSPECTION OBSERVATIONS

On March 7, 2013, a Concentrated Animal Feeding Operation (CAFO) inspection was conducted for Santa Ana Water Board Order No. R8-2007-0001 - 'General Waste Discharge Requirements for Concentrated Animal Feeding Operations (Dairies and Related Facilities) within the Santa Ana Region', NPDES General Permit No. (CAG018001) at GH Dairy No. 3 in Ontario, California (refer to Photo 1). The inspector spoke with Mr. Gerben Hettinga (Owner, GH Dairy No. 2) at approximately 11:15 AM at GH Dairy No. 2. Mr. Hettinga provided the inspector with the Facility contact information and informed the inspector that all records (including the EWMP) were not retained onsite, but rather stored offsite at Mr. Hettinga's main office at Ex. 6 Personal Privacy (PP) in Ontario, CA. The inspector met with Mr. Frank Silva (Foreman, GH Dairy No. 3) at approximately 1:50 PM on March 7, 2013. Mr. Silva accompanied the inspector during the Facility site visit. The inspector held a closing conference with Mr. Silva at the conclusion of the inspection. During the closing conference, the inspector reviewed the preliminary inspection findings with the Facility representative.

The Facility is a 37.8-acre dairy farm with an animal population of approximately 400 milking cows and 160 heifers, at the time of the inspection. Mr. Silva stated the heifers were only onsite to graze in the pasture and that they would be leaving for another dairy on Sunday (March 10, 2013). Process wastewater from milking and cow washing activities is collected into drains on the south side of the wash pen (refer to Photos 2 through 5). Process wastewater collected in the drain is mixed with well water to flush the process wastewater line (refer to Photo 6). The process wastewater line conveys process wastewater south via gravity flow to a standpipe located in the northeast corner of the pasture (refer to Photo 7). The pasture standpipe conveys water along the northern edge of the pasture where it can be land-applied via fifteen (15) disposal valves (refer to Photo 8). Mr. Silva stated that the valves are rotated daily and that all process wastewater lines are flushed every couple of days. Mr. Silva stated that the pasture is mowed and ripped every other month and is seeded to grow winter grass during the Winter season, and Bermuda grass during the Summer season. All excess storm water runoff from the pastures and wastewater from land application activities naturally flows to the south where it can be collected in the containment pond in the southern portion of the Facility (refer to Photos 9 and 10). A concrete spillway was observed on the south side of the containment pond, adjacent to Merrill Avenue (refer to Photos 11 and 12). All storm water runoff from the corrals flows to the central portion of the corrals and collects in the cow alley (refer to Photos 5 and 13). Storm water runoff that collects in the cow alley flows south into two (2) polyvinyl chloride (PVC) pipes located on the south side of the corrals (refer to Photos 13 and 14). The pipes convey storm water runoff to a dirt field located between the pasture and the corrals (refer to Photos 14). The dirt area was being used to store and dry manure at the time of the inspection (refer to Photos 13, 14, 17, and 18). The PVC pipes were observed completely buried in manure solids (refer to Photos 13 and 14). Storm water is conveyed via the PVC pipes to the dirt field then flows southeast to a drainage conveyance channel along the eastern perimeter of the Facility (refer to Photo 15). Storm water in the drainage conveyance channel flows south and eventually into the east side of the containment pond located in the southern portion of the Facility (refer to Photo 16). Mr. Silva stated that the containment pond rarely collects storm water runoff or process wastewater from the corrals and milking barn area, and that very little solids accumulate in the pond. Mr. Silva also stated that the pond had not been cleaned for approximately two and one-half years. The containment pond did not contain manure solids at the time of the inspection.

Mr. Silva stated that the corrals are typically cleaned every four (4) months; however, sometimes cleaning frequency is increased to every three (3) months. Manure is hauled offsite approximately three (3) times per year by Bonito Trucking and is diposed of typically at croplands in the San Jacinto region. The exact disposal location was unknown by Mr. Silva. Manure tracking manifests were not maintained onsite of all haul events during the 2012 reporting period. Mr. Silva stated that all mortalities are removed from the Facility immediately by Stiles Animal Removal, Inc.

FACILITY

CAFO Size: **Medium** (at time of inspection)

Total Acres: **37.8**

Production Area Acres: **37.8**

CONTAINMENT STRUCTURES

Wastewater Lagoons: **1** Evaporation Ponds: **0** Catch Basins: **0**

Depth Markers: **1** Other: **1 pasture**

ANIMALS ONSITE DURING INSPECTION

Milk Cows: **400** Dry Cows: **0** Heifers: **160**

Calves: **0** Other: **N/A**

ANNUAL REPORT REVIEW

ANNUAL REPORT

Monitoring Year: **N/A** Reviewed: **No** Signed & Certified: **Unknown**

Submittal Date: **N/A**

REPORTED ANIMAL POPULATION

Milk Cows: **N/A** Dry Cows: **N/A** Heifers: **N/A**

Calves: **N/A** Other: **N/A**

MANURE INFORMATION

Amount of manure spread on cropland at the Facility: **None**

Amount of manure hauled away from the Facility: **Unknown**

Name and location of the composting operation, or, if the manure was hauled to cropland, the owner or tenant, and the destination address: **San Jacinto, CA**

1. Weekly Storm Water Management Structure visual inspection documentation was not retained onsite or available for review at the time of the inspection as required by the Permit. Specifically, Mr. Silva stated that the water level in the containment pond (refer to Photos 11 and 16) located along the southern perimeter of the Facility is evaluated and recorded weekly; however, documentation of pond inspections are maintained offsite at the Hettinga main office at Ex. 6 Personal Privacy (PP) in Ontario, CA. Permit Attachment B - Monitoring and Reporting Program, Section I.A states "all monitoring data shall be maintained for at least five years and shall be made available to Regional Board, SWRCB, USEPA staff and/or their authorized representatives (including an authorized contractor acting as their representative), upon request." In addition, Permit Attachment B - Monitoring and Reporting Program, Section I.B states "all containment structures, including but not limited to, ponds, berms, and wastewater distribution lines, shall be inspected at least once a week during the entire year and at least once each 24-hour period during a storm event in which rainfall exceeds 0.5 inches in 24 hours. The findings of these inspections shall be documented on the attached CAFO Weekly Storm Water Management Structure Inspections Log Sheet (Attachment 1[of the Permit])." As a result, the inspector, was unable to verify if inspections and documentation were conducted in accordance with the Permit. Permit Attachment B - Monitoring and Reporting Program, Section I.A states "all monitoring data shall be maintained for at least five (5) years and shall be made available to Regional Board, SWRCB, USEPA staff and/or their authorized representatives (including authorized contractor acting as their representative), upon request."

2. Annual Reports for the previous five (5) years were not available for review at the time of inspection. Mr. Hettinga stated that all records are maintained at the Hettinga main office located at Ex. 6 Personal Privacy (PP) in Ontario, CA. Permit Attachment B - Monitoring and Reporting Program, Section I.A states "all monitoring data shall be

maintained for at least five (5) years and shall be made available to Regional Board, SWRCB, USEPA staff and/or their authorized representatives (including authorized contractor acting as their representative), upon request."

ENGINEERED WASTE MANAGEMENT PLAN (EWMP) REVIEW

Did the inspector review the EWMP in the RWQCB file?	**Yes**
Did the Facility have a copy of the EWMP on-site and available for review?	**No**
EWMP preparation date:	**February 2008**
EWMP prepared by:	**Sierra Engineering Services**
Santa Ana RWQCB EWMP acceptance date:	**Unknown**
EWMP was certified by the Facility's engineer/consultant on:	**Unknown**

1. The EWMP was not retained onsite or available for review at the time of the inspection as required by the Permit. Mr. Hettinga stated that all records, including the EWMP, are maintained at the Hettinga main office at Ex. 6 Personal Privacy (PP) Ex. 6 Personal Privacy (PP) in Ontario, CA. Provision VII.C.3.c of the Permit states that "a copy of the accepted Engineered Waste Management Plan (EWMP) for the facility shall be maintained on site and the person in charge of the dairy operation shall be familiar with its content."

NUTRIENT MANAGEMENT PLAN (NMP) REVIEW (IF APPLICABLE)

Did the Facility have a copy of the NMP on-site and available for review?	**N/A**
Date NMP was prepared:	**N/A**
NMP prepared by:	**N/A**
Santa Ana RWQCB NMP acceptance date:	**N/A**

1. The Discharger does not apply manure, litter, or process wastewater to croplands under their ownership or operational control; therefore, the Discharger is not required to develop, implement, and retain onsite a Nutrient Management Plan as stated in Provision VII.C.3.d of the Permit.

FACILITY HOUSEKEEPING, WASTEWATER, AND MANURE INFORMATION

Typical Depth of Manure in Corrals (in inches):	**3-8**
Estimated Freeboard in Fullest Lagoon (in feet):	**8**
Date of Last Lagoon Solids Removal, per Facility Representative:	**Approx. mid-2010**
Disposal Location for Lagoon Solids:	**Onsite manure stockpile located in the central portion of the Facility (refer to Photos 17 and 18)**

REVIEW OF FACILITY HOUSEKEEPING

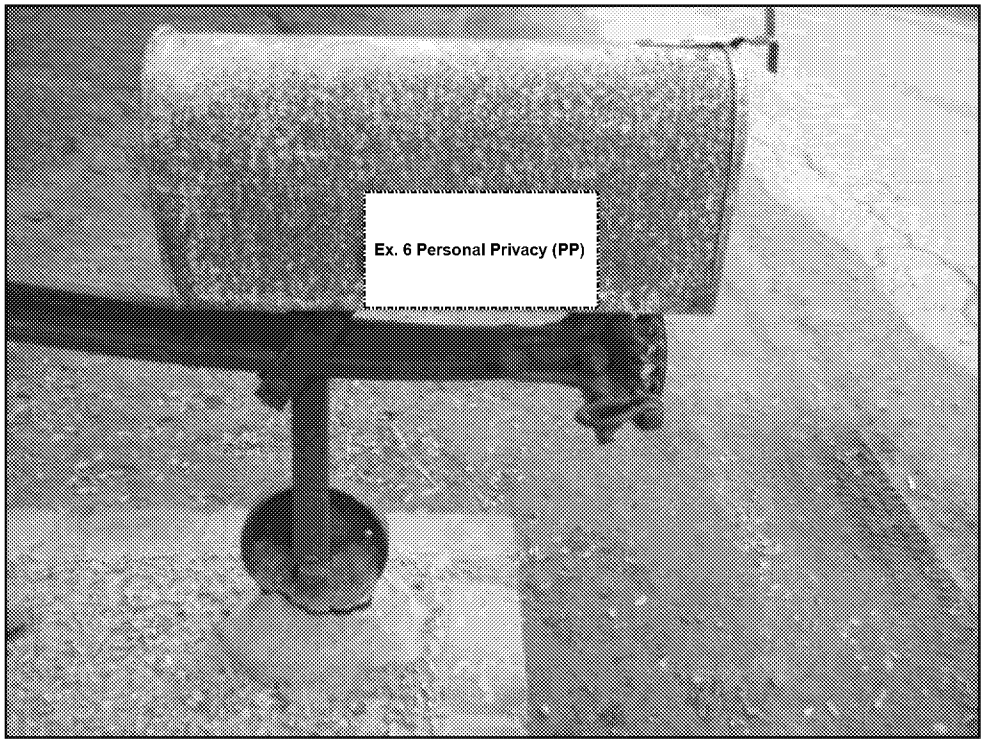
1. Facility housekeeping appeared adequate at the time of the inspection.

CONDITION OF BERMS AND CONTAINMENT STRUCTURES

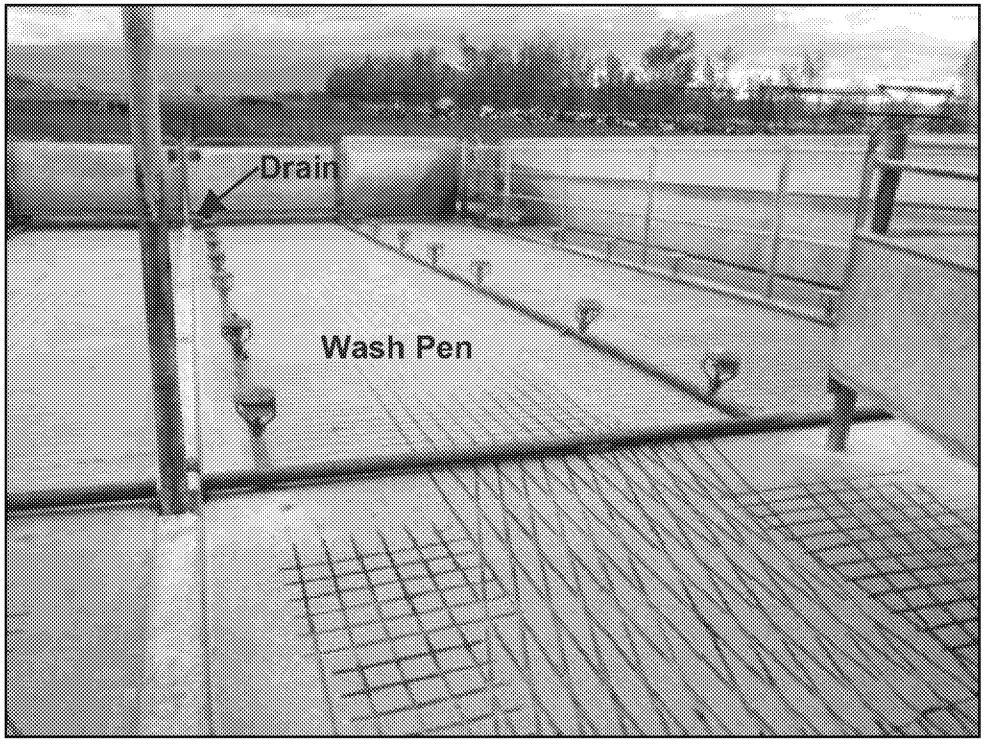
2. The Facility berms and containment structures appeared adequately and routinely maintained at the time of the inspection.

ITEMS FOR FOLLOW UP ON FUTURE INSPECTIONS

1. Verify whether EWMP is retained onsite
2. Verify whether inspections are conducted and documented
3. Verify if manure tracking manifests are documented and retained

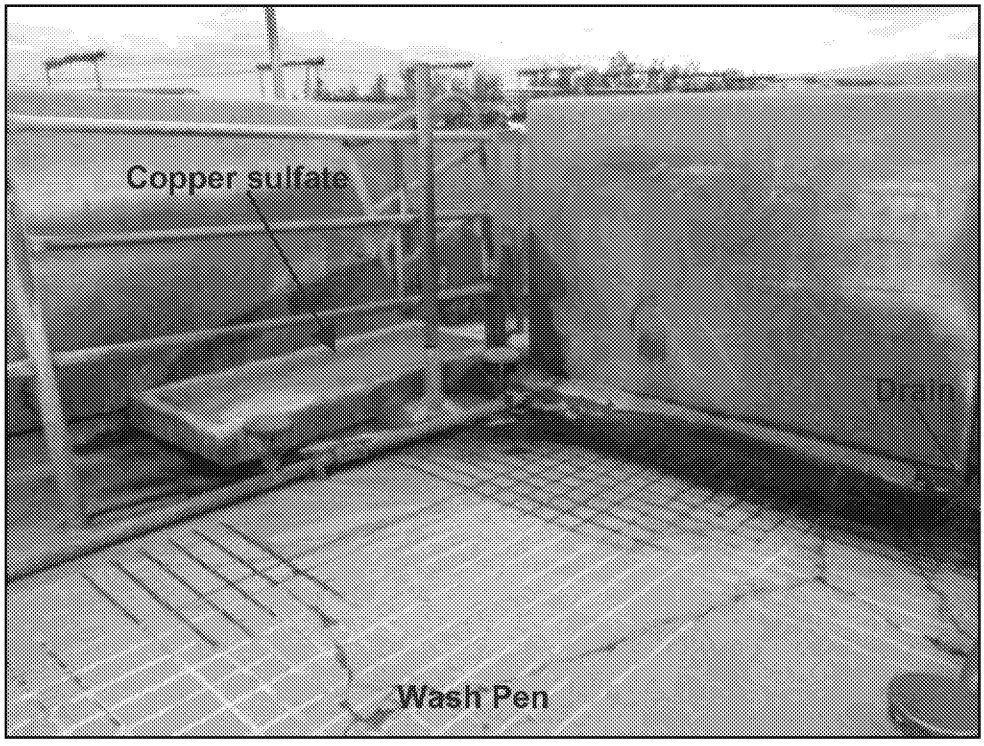


Photograph 1. GH Dairy No. 3 Facility address and mailbox.



Photograph 2. View facing south of the wash pen. Note all process wastewater from the wash pen is piped to disposal valve heads along the north side of the pasture, located in the southern portion of the Facility, shown in Photographs 7 and 8.

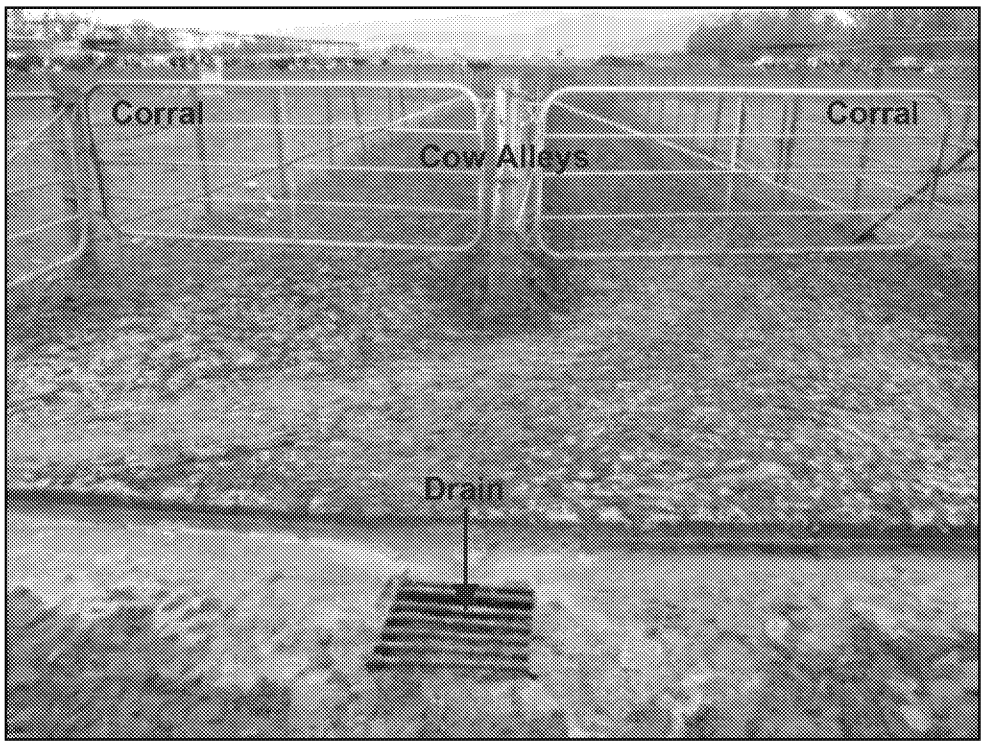
Inspection and Photograph Date: March 7, 2013



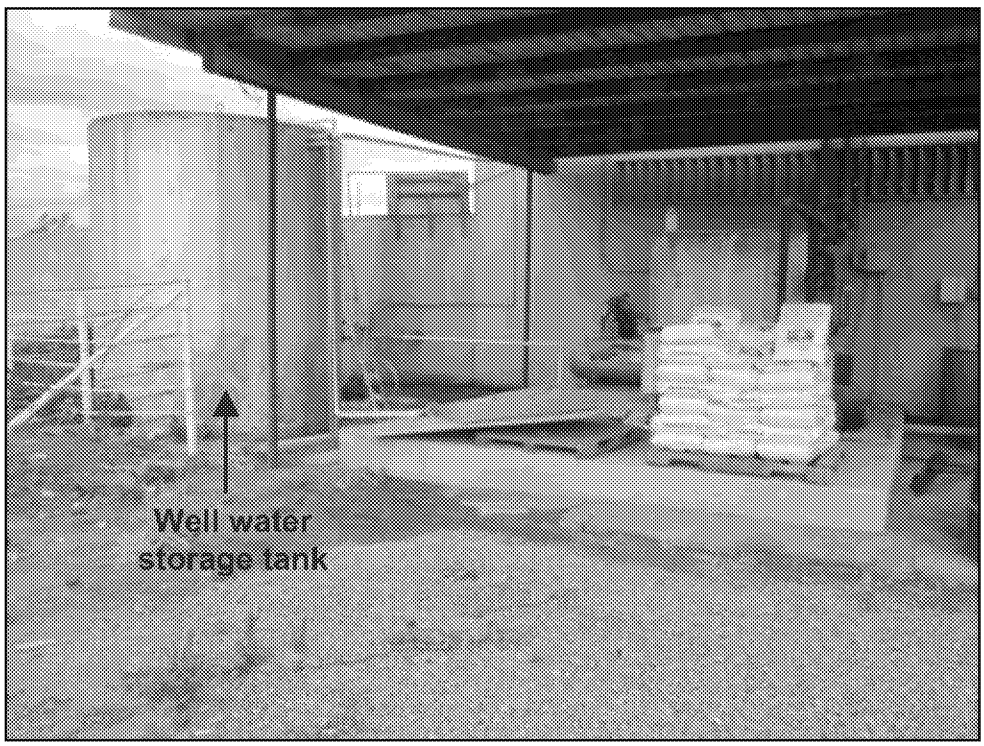
Photograph 3. View facing southeast of a copper sulfate bath located in the wash pen.

Photograph 4. Close-up view of the drain on the south side of the wash pen, shown in Photograph 3. Note this drain leads to a standpipe and disposal valve heads located on the north side of the pasture, in the southern portion of the Facility, shown in Photographs 7 and 8.

Inspection and Photograph Date: March 7, 2013



Photograph 5. View facing south of a drain immediately south of the wash pen, on the north side of the cow alleys.



Photograph 6. View facing southwest of a well water storage tank located on the east side of the milking barn. Note the well water is combined with process wastewater and used to flush the cow alleys and process wastewater lines.

Inspection and Photograph Date: March 7, 2013

Photograph 7. View facing south of the standpipe located in the northeast corner of the pasture. Note the standpipe conveys process wastewater from the milking barn to fifteen (15) disposal valve heads on the north side of the pasture, located in the southern portion of the Facility.

Photograph 8. View facing west of the disposal valve heads located on the north side of the pasture.

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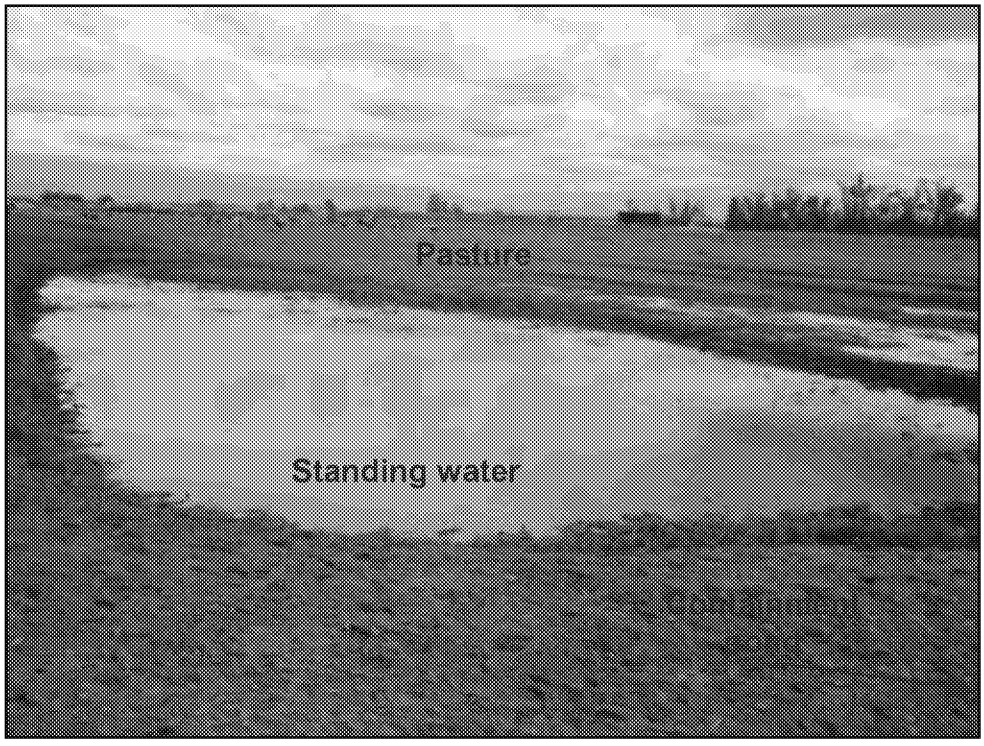
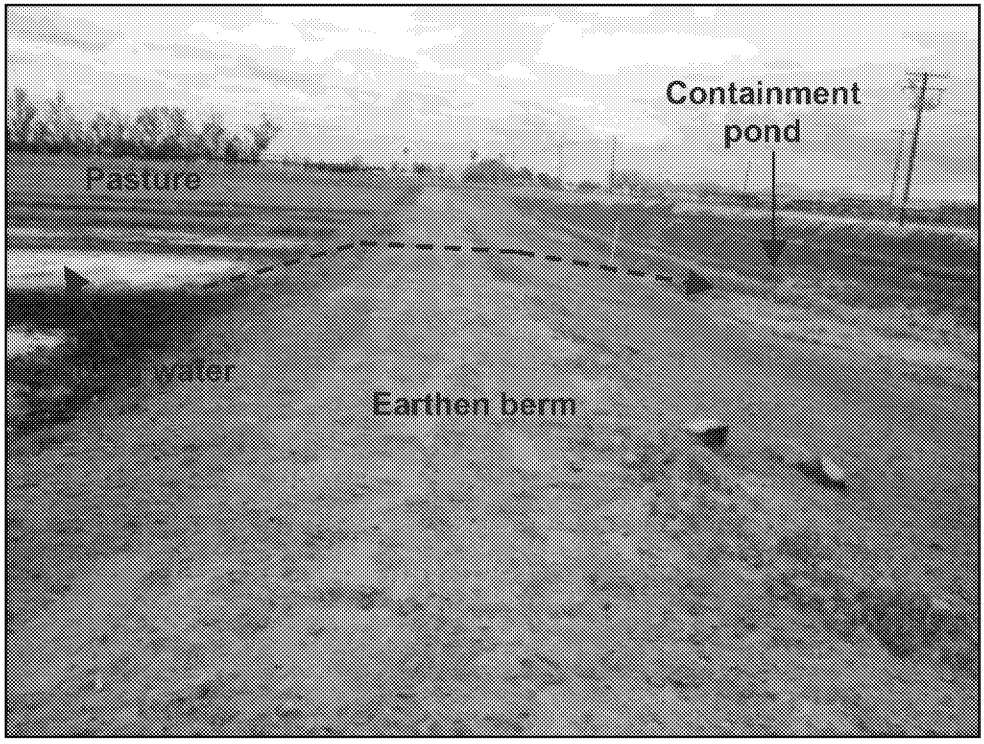
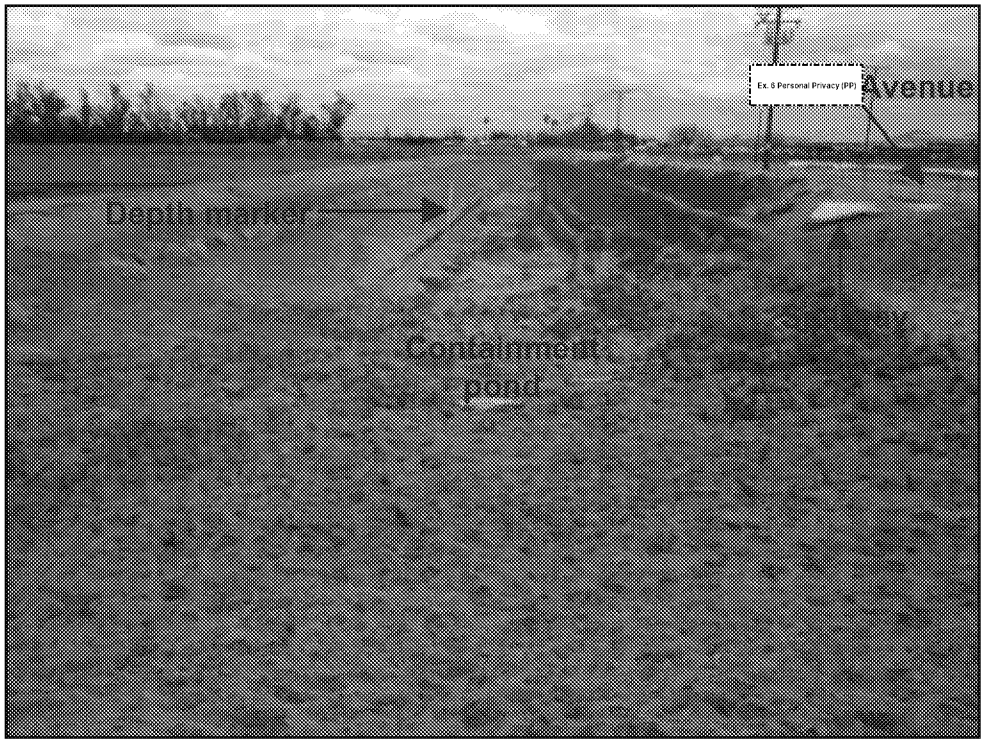


Photograph 9. View facing northeast of standing water located in the southwest corner of the pasture, adjacent to the containment pond.

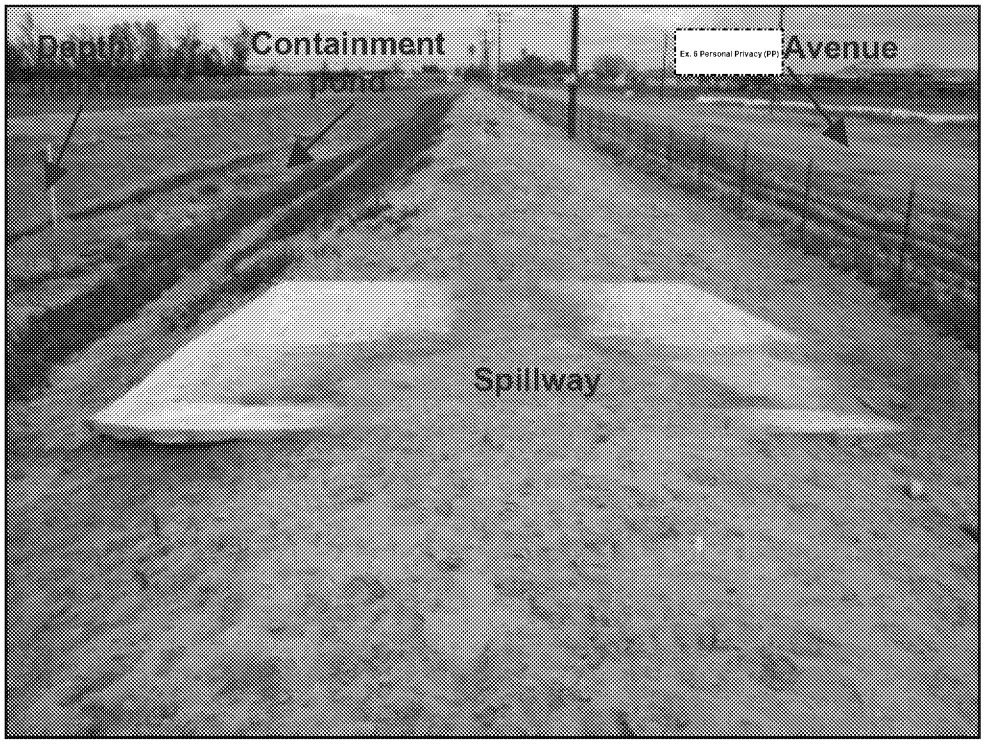


Photograph 10. View facing east of standing water located in the southwest corner of the pasture, adjacent to the containment pond, shown in Photograph 9. Note excess process wastewater that accumulates in the pasture flows south over the earthen berm and into the containment pond.

Inspection and Photograph Date: March 7, 2013

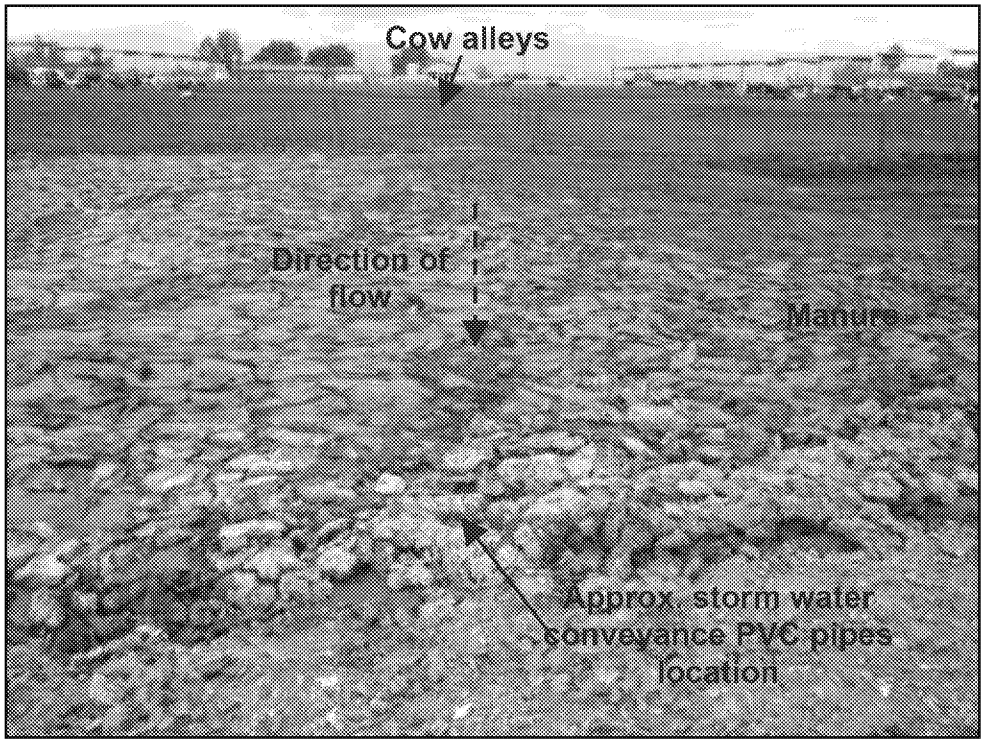


Photograph 11. View facing east of the containment pond and spillway located along the southern perimeter, adjacent to Ex. 6 Personal Privacy (PP) Avenue.

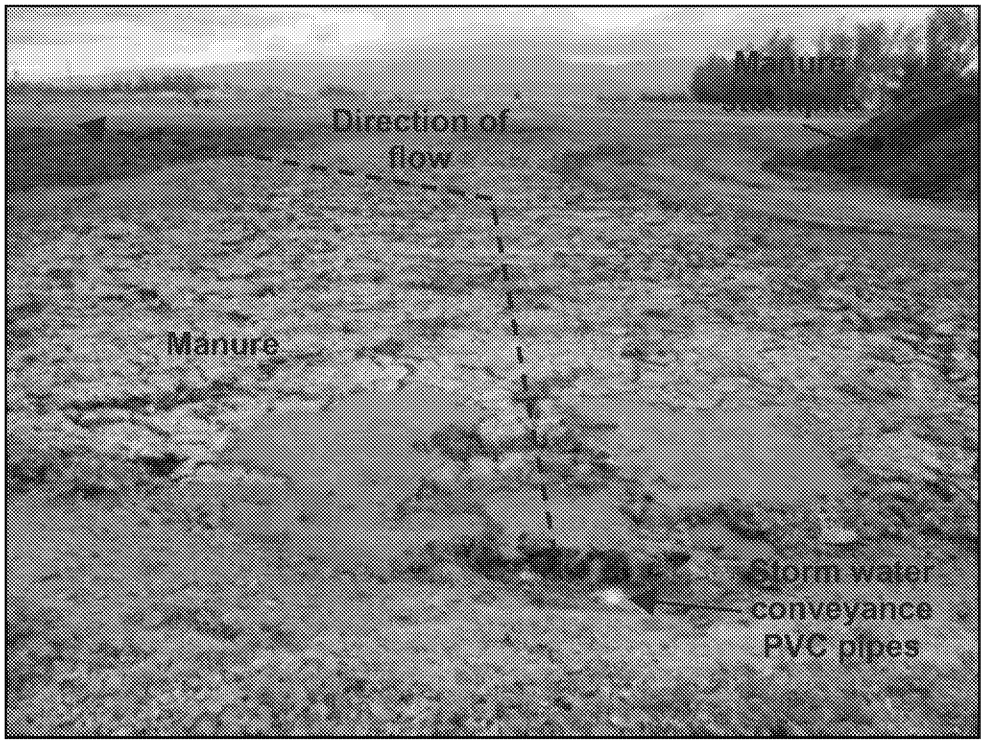


Photograph 12. View facing east of the concrete spillway located on the southern embankment of the containment pond, adjacent to Ex. 6 Personal Privacy (PP) Avenue.

Inspection and Photograph Date: March 7, 2013

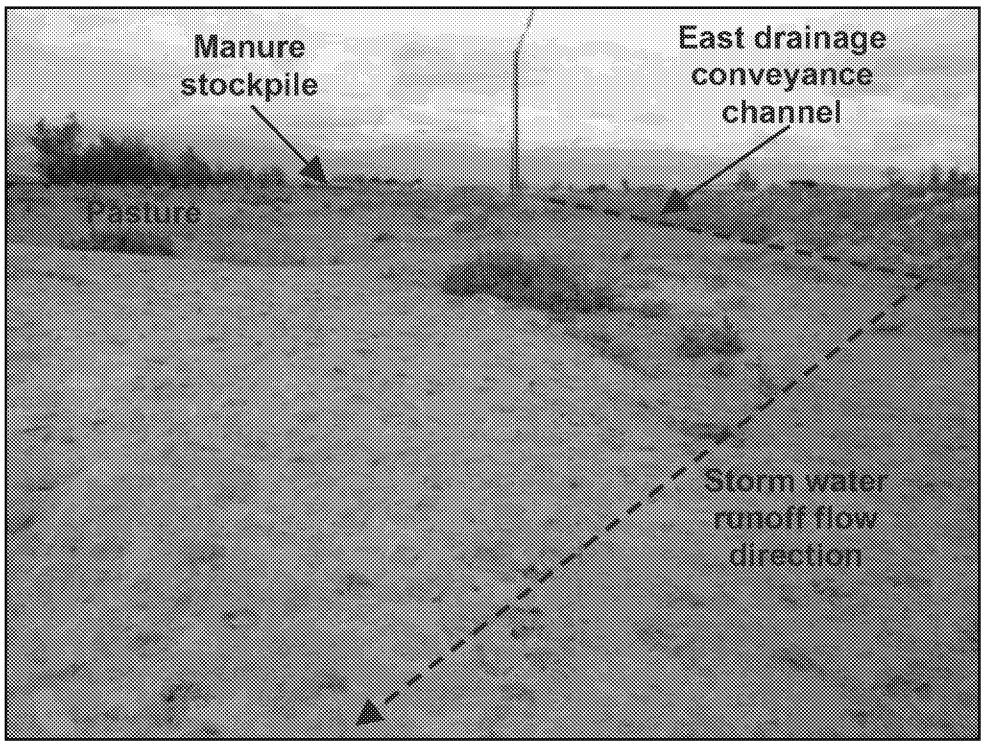


Photograph 13. View facing north of the storm water flow pathway from the corrals south into the dirt field.

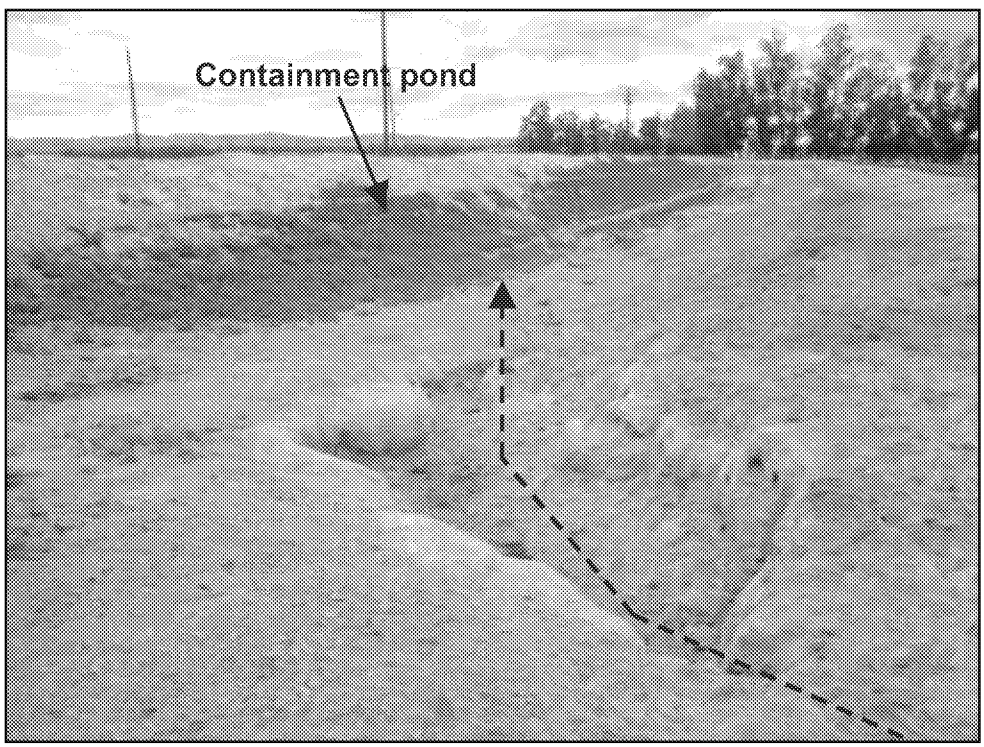


Photograph 14. View facing south of the storm water conveyance PVC pipes outlet into the dirt field.

Inspection and Photograph Date: March 7, 2013



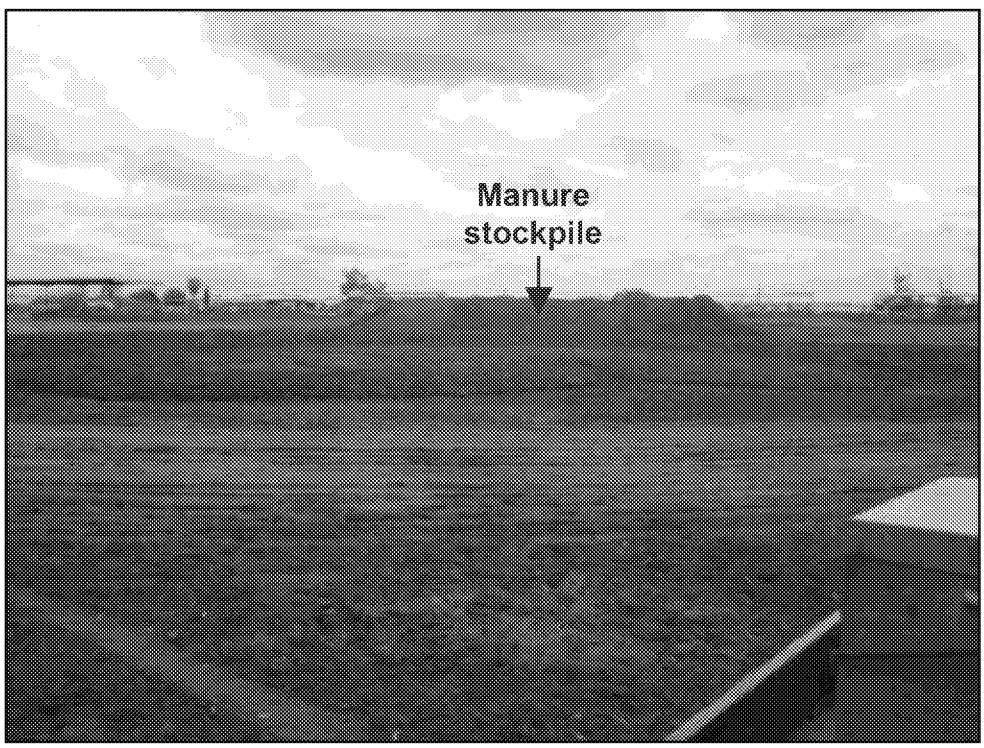
Photograph 15. View facing north of the east drainage conveyance channel that conveys storm water runoff from the corrals to the containment pond located along the southern perimeter of the Facility.



Photograph 16. View facing southwest of the storm water runoff conveyance channel entrance point into the east side of the containment pond from the east drainage conveyance channel, shown in Photograph 15.

Inspection and Photograph Date: March 7, 2013

Photograph 17. View facing northwest of manure south of the corrals, in the dirt field.



Photograph 18. View facing east of the manure stockpile located in the dirt field, immediately south of the corrals, and north of the pasture.